SPYWOLF

Security Audit Report
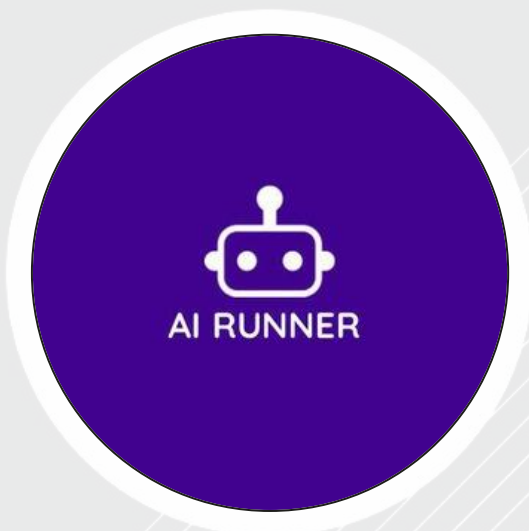
AI RUNNER

Completed on
December 6, 2022

MADE IN USA 🇺🇸

OVERVIEW

This audit has been prepared for **AIRunner** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

"

TABLE OF CONTENTS

AI Runner

PROJECT DESCRIPTION

According to their website/whitepaper:

AI Runner is a market manipulation in which a bot can conclude a transaction before a pending (or incoming) order impacting the price of the order itself. AI Runner BOT can scan pending orders and can place their trades first, thus profiting from the resulting price movements when previous orders are finally filled.

Release Date: Launched at December 6, 2022

Category: Meme token

01

CONTRACT INFO

Token Name
AI Runner

Symbol
AIR

Contract Address
0x5bd8f565faa30e87E0F7E92B7131F249D4066e16

Network
Ethereum

Language
Solidity

Deployment Date
Dec 6, 2022

Verified?
Yes

Total Supply
10,000,000 AIR

Status
Launched

TAXES

Buy Tax
5%

Sell Tax
5%

*Taxes cannot be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

02

CURRENT STATS

(As of December 6, 2022)

Liquidity

Uniswap:
6.2 WETH

Burn

No tokens burnt

Status:
Launched!

MaxTxAmount
10,000,000

DEX
Uniswap

LP Address(es)

Uniswap:
0x1eD4eEE73c188199779F829642EFaE5Dc50F34a0

98.9% locked in Unicrypt - unlocks at 21/12/2022 ⚠️
https://app.unicrypt.network/amm/uni-v2/pair/0x1eD4eEE73c188199779F829642EFaE5Dc50F34a0

03

TOKEN TRANSFERS STATS

Transfer Count	697
Uniq Senders	180
Uniq Receivers	290
Total Amount	60820770.058263235 AIR
Median Transfer Amount	35230.280500746 AIR
Average Transfer Amount	87260.78917971769 AIR
First transfer date	2022-12-05
Last transfer date	2022-12-06
Days token transferred	2

SMART CONTRACT STATS

Calls Count	2477
External calls	236
Internal calls	2241
Transactions count	886
Uniq Callers	237
Days contract called	2
Last transaction time	2022-12-06 13:24:47 UTC
Created	2022-12-05 22:06:59 UTC
Create TX	0xfe9046ec17976af57be00667792c8cdfc47be13dbf2aa26d9f3dc5f838cc4a05
Creator	0xffe8fd63b293b99172313a33515a36e011a63b2a

04

FEATURED WALLETS

Owner address	0x0000000000000000000000000000000000000000 **Ownership is renounced** *Original owner: 0xffe8fd63b293b99172313a33515a36e011a63b2a*
Marketing wallet	0xE2B88b4d75DB31Dec59615ab498D66360ffB487f
Development wallet	0xFfE8fD63b293b99172313a33515a36E011A63B2A
LP address	**Uniswap:** **0x1eD4eEE73c188199779F829642EFaE5Dc50F34a0** **98.9% locked in Unicrypt - unlocks at 21/12/2022 ⚠️** https://app.unicrypt.network/amm/uni-v2/pair/0x1eD4eEE73c188199779F829642EFaE5Dc50F34a0

TOP 3 UNLOCKED WALLETS

1

5.83%   0x2f345ee758d15226f083ff3e5aa45d32891b4bc4

0x174eb89c372fddfd9215f5e404bb90122fb701c9   **5.4%**   **2**

3

4.41%   0xac0c1fc1820bf840104a8942dc9cff1ff4a44f3a

05

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

07

FOUND THREATS

⚠️ High Risk

Development wallet and marketing wallet can initiate manual token swaps from contract and withdraw eth from the contract.
If contract's token swap balance is 0 transactions will fail.

```
function manualswap() external {
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

08-A

ℹ️ Informational

Before ownership renouncement owner could:
Enable/disable trading, blacklist address from trading.
Set fees without limit, set max transaction amount without limit.

```solidity
function setTrading(bool _tradingOpen) public onlyOwner {
    tradingOpen = _tradingOpen;
}

function blockBots(address[] memory bots_) public onlyOwner {
    for (uint256 i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}

function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell,
uint256 taxFeeOnBuy, uint256 taxFeeOnSell) public onlyOwner {
    _redisFeeOnBuy = redisFeeOnBuy;
    _redisFeeOnSell = redisFeeOnSell;

    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;
}

function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
    _maxTxAmount = maxTxAmount;
}
```

Contract's ownership is renounced.
Owner do not have any special privileges.

08-B

RECOMMENDATIONS FOR
GOOD
PRACTICES

___

|	
1	Consider fundamental tradeoffs
2	Be attentive to blockchain properties
3	Ensure careful rollouts
4	Keep contracts simple
5	Stay up to date and track development

AIRunner

GOOD PRACTICES FOUND

✓ The owner cannot mint new tokens after deployment

✓ The owner cannot stop or pause the contract

✓ The owner can set a transaction limit, but can't lower it than 1% of total supply

✓ The smart contract utilizes "SafeMath" to prevent overflows

Current token distribution according to Etherscan:

- 17.7% - Liquidity pair
- 22% - Top 5 holders
- 60.3% - Rest of the holders

Tokens distribution

Liquidity pair
17,7%

Top 5 holders
22,0%

Rest of the holders
60,3%
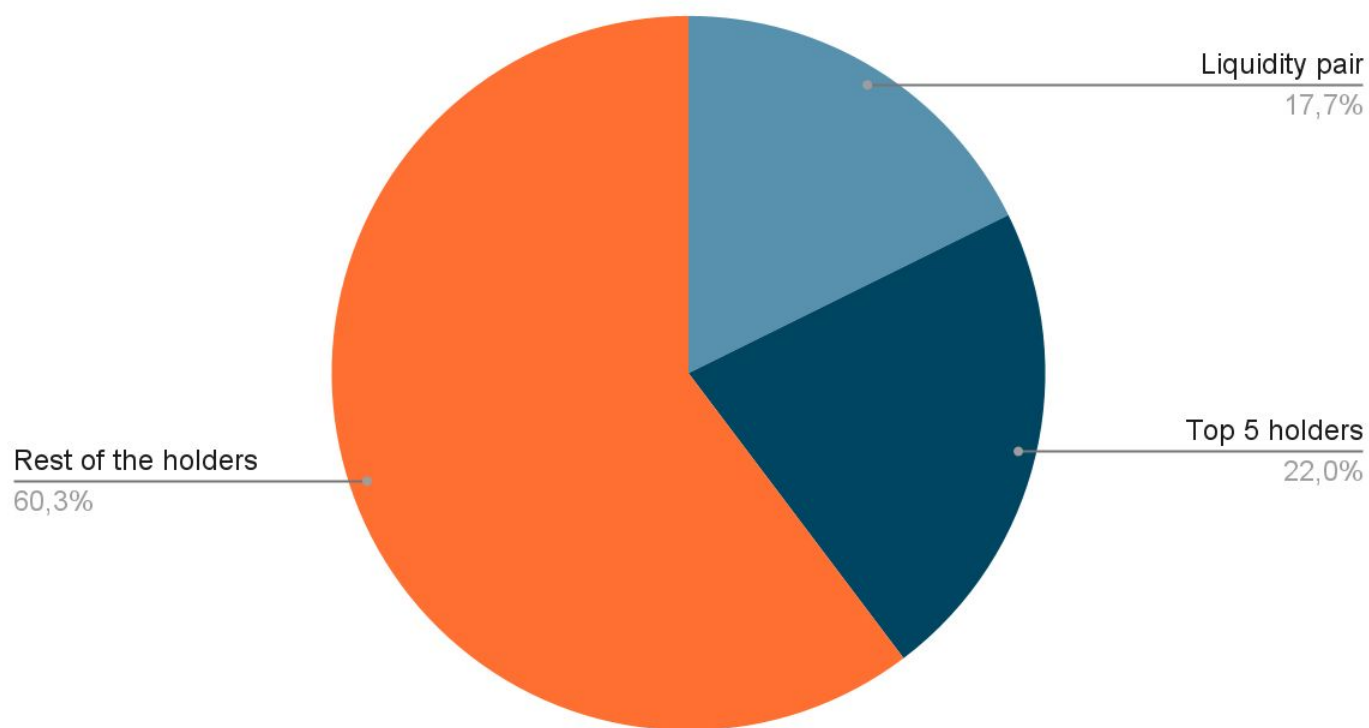
THE TEAM

⚠️ **The team is annonymous**

KYC INFORMATION

⚠️ **No KYC**

We recommend the team to get a KYC in order to ensure trust and transparency within the community.

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Website URL
Not available ⚠️

Domain Registry
https://www.godaddy.com

Domain Expiration
Not available ⚠️

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Not available ⚠️

Content
Not available ⚠️

Whitepaper
General talk, common knowledge, no clear explanation about what project will deliver.⚠️

Roadmap
Not available ⚠️

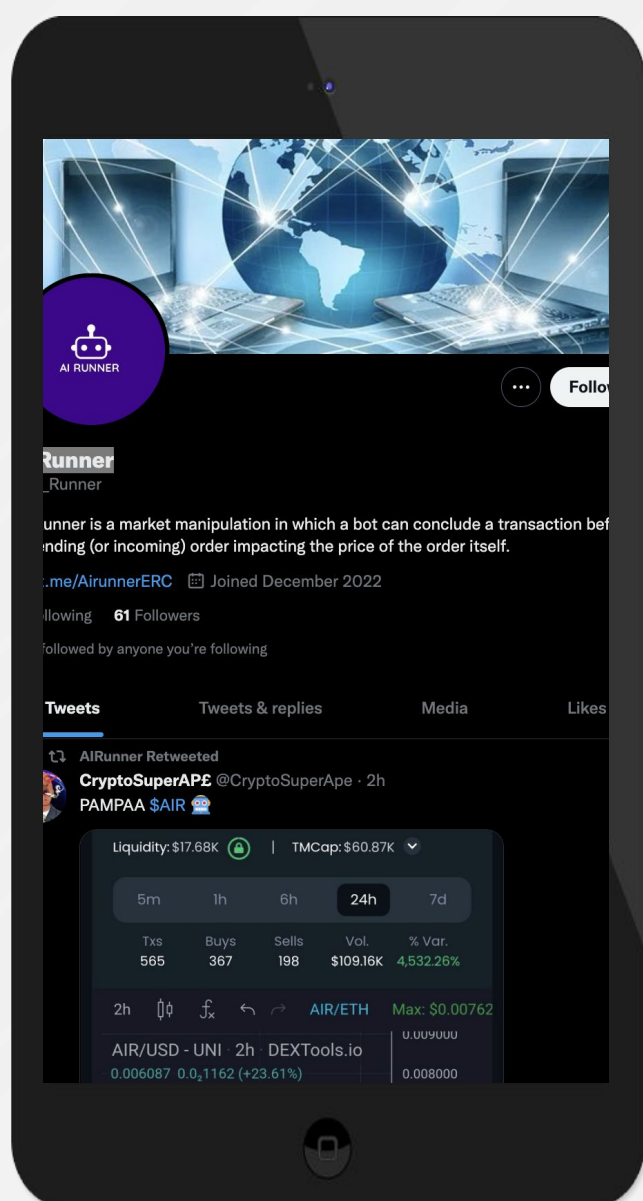**Mobile-friendly?**
Not available ⚠️

Not available

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SOCIAL MEDIA

& ONLINE PRESENCE

Project's social media activity is concentrated in telegram with organic users interactions

Twitter

@AI_Runner

- 63 followers
- Posts frequently
- All posts made within a day ⚠️

Discord

- Not available

Telegram

@AIrunnerERC

- 244 members
- Very active members
- Very active mods

Medium

- Not available

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SPYWOLF
CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.